

Title (en)

FOAMABLE COMPOSITION FOR POLYURETHANE FOAM, AND POLYURETHANE FOAM

Title (de)

SCHÄUMBARE ZUSAMMENSETZUNG FÜR EINEN POLYURETHANSCHAUMSTOFF UND POLYURETHANSCHAUMSTOFF

Title (fr)

COMPOSITION MOUSSANTE POUR MOUSSE DE POLYURETHANE ET MOUSSE DE POLYURETHANE

Publication

**EP 2368927 A4 20140625 (EN)**

Application

**EP 09834458 A 20091224**

Priority

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- JP 2008327364 A 20081224

Abstract (en)

[origin: US2011201705A1] A foamable composition for polyurethane foam is provided which advantageously improves heat insulating properties, a long-term stability, and a dimensional stability, of a polyurethane foam that is produced by using carbon dioxide as a blowing agent. Further, a polyurethane foam which has excellent heat insulating properties is provided by foaming and curing the foamable composition for polyurethane. In the production of the polyurethane foam in which carbon dioxide is used in the foaming, a polyol component is used which includes a phenolic resin polyol that is obtained by adding at least one alkylene oxide to a phenolic novolak resin, and an aromatic amine polyol that is obtained by adding at least one alkylene oxide to an aromatic diamine such that the total amount thereof is 60% or more by mass, based on the total polyol component.

IPC 8 full level

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CPC (source: EP KR US)

**C08G 18/28** (2013.01 - KR); **C08G 18/4027** (2013.01 - EP US); **C08G 18/5021** (2013.01 - EP US); **C08G 18/5027** (2013.01 - EP US); **C08G 18/5033** (2013.01 - EP US); **C08G 18/54** (2013.01 - KR); **C08G 18/542** (2013.01 - EP US); **C08G 18/546** (2013.01 - EP US); **C08J 9/08** (2013.01 - KR); **C08L 75/04** (2013.01 - KR); **C08G 2101/00** (2013.01 - EP US); **C08G 2110/0008** (2021.01 - EP US); **C08G 2110/0025** (2021.01 - EP US)

Citation (search report)

- [E] EP 2345680 A1 20110720 - ASAHI ORGANIC CHEM IND [JP]
- [Y] JP S63245420 A 19881012 - SANYO CHEMICAL IND LTD
- [A] US 3686101 A 19720822 - DAVIS BILLY D, et al
- [Y] JP H07196838 A 19950801 - ASAHI ORGANIC CHEM IND
- [A] JP 2005344079 A 20051215 - TOYO TIRE & RUBBER CO
- [Y] JP 2003055424 A 20030226 - SHINETSU CHEMICAL CO
- See references of WO 2010073651A1

Cited by

CN109456600A; WO2020144003A1; EP3677610A1; WO2020144004A1

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